BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work:Modified Estimate for Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of yelahanka Division (Package No11)

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)								
							0.00	116.81	0.00
	Approved Amount	**116.81**							
2	KSRRB 300-1. **Earthwork excavation** by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.								
	For RCC Drain	Cum							
	Industrial Area								
	Ajantha Vihar Appertment Rd		2	395.3	1.10	1.00	869.55		
	Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00	1.10	1.00	695.20		
	Ajantha Vihar Appertment Beside Rd		2	266.95	1.10	1.00	587.29		
	Cotton Word Office Rd		2	43.80	1.10	1.00	96.36		
	Durga Ganapathi House Rd		2	296.00	1.10	1.00	651.20		
	GO GO International Factory Main Rd (Nidhi Fasions Rd).		2	334.50	1.10	1.00	735.90		
	CQAL Layout								
	2nd Main Rd		1	107.10	1.10	1.00	117.81		
	Cross Rd -1		2	26.50	1.10	1.00	58.30		
	Cross Rd-2		2	18.90	1.10	1.00	41.52		
	Santhosh Nagara								
	1st Cross Rd Santhosh Nagara		2	48.75	1.00	1.00	97.50		
	1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70	1.10	1.00	223.74		
	Thirumala Nagara								
	6th Main Rd		1	164.70	1.10	1.00	181.17		
	Devi Circle								
	Adishakthi Temple Opp Rd		1	156.50	1.10	1.00	172.15		
	AMS Layout								
	Oriental English High School Rd		1	180.00	1.10	1.00	198.00		

80Feet Rd (Below high tension line) north-south		2	77.90	1.10	1.00	171.38		
80Feet Rd (high tension line) East-West		2	222.75	1.10	1.00	490.27		
5th Cross Rd (Impu House Rd # 156)		2	84.50	1.10	1.00	186.58		
4TH Main Rd		1	22.30	1.10	1.00	24.62		
6th Cross Rd		1	18.60	1.10	1.00	20.53		
4th Cross Rd		2	102.10	1.10	1.00	225.44		
3rd Cross Rd		2	74.35	1.10	1.00	164.16		
Cross Rd-3		2	9.45	1.10	1.00	20.87		
Culvert		15	7.34	1.50	1.00	165.69		
NP3 Pipe								
		1	10.00	1.10	1.10	12.10		
						6207.33	**144.62**	**897703.66**
Approved Amount	**144.62**							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:4:8 with OPC @ 180kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.							
For RCC Drain	Cum							
Industrial Area								
Ajantha Vihar Appertment Rd		2	395.3	1.10	0.15	130.43		
Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00	1.10	0.15	104.28		
Ajantha Vihar Appertment Beside Rd		2	266.95	1.10	0.15	88.09		
Cotton Word Office Rd		2	43.80	1.10	0.15	14.45		
Durga Ganapathi House Rd		2	296.00	1.10	0.15	97.68		
GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	334.50	1.10	0.15	110.39		
CQAL Layout								
2nd Main Rd		1	107.10	1.10	0.15	17.67		
Cross Rd -1		2	26.50	1.10	0.15	8.75		
Cross Rd-2		2	18.90	1.10	0.15	6.24		
Santhosh Nagara								
1st Cross Rd Santhosh Nagara		2	48.75	1.00	0.15	14.63		
1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70	1.10	0.15	33.56		
Thirumala Nagara								

Main Rd		1	164.70	1.10	0.15	27.18		
Devi Circle								
Adishakthi Temple Opp Rd		1	156.50	1.10	0.15	25.82		
AMS Layout								
Oriental English High School Rd		1	180.00	1.10	0.15	29.70		
80Feet Rd (Below high tension line) north-south		2	77.90	1.10	0.15	25.71		
80Feet Rd (high tension line) East-West		2	222.75	1.10	0.15	73.70		
5th Cross Rd (Impu House Rd # 156)		2	84.50	1.10	0.15	27.96		
4TH Main Rd		1	22.30	1.10	0.15	3.69		
6th Cross Rd		1	18.60	1.10	0.15	3.08		
4th Cross Rd		2	102.10	1.10	0.15	33.78		
3rd Cross Rd		2	74.35	1.10	0.15	24.60		
Cross Rd-3		2	9.45	1.10	0.15	3.13		
Culvert		15	7.34	1.50	0.15	24.85		
For Kerb								
Industrial Area								
Ajantha Vihar Appertment Rd		2	395.3	0.20	0.10	15.81		
Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00	0.20	0.10	12.64		
Ajantha Vihar Appertment Beside Rd		2	253.60	0.20	0.10	10.14		
Cotton Word Office Rd		2	43.80	0.20	0.10	1.75		
Durga Ganapathi House Rd		2	293.50	0.20	0.10	11.74		
GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	331.75	0.20	0.10	13.27		
COAL Layout								
2nd Main Rd		1	107.10	0.20	0.10	2.14		
Cross Rd -1		2	26.50	0.20	0.10	1.06		
Cross Rd-2		2	18.90	0.20	0.10	0.76		
Santhosh Nagara								
1st Cross Rd Santhosh Nagara		2	48.75	0.20	0.10	1.95		
1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70	0.20	0.10	4.07		
Thirumala Nagara								
6th Main Rd		1	164.70	0.20	0.10	3.29		
Devi Circle								
Adishakthi Temple Opp Rd		1	156.50	0.20	0.10	3.13		

	MS Layout								
	Oriental English High School Rd		1	180.00	0.20	0.10	3.60		
	80Feet Rd (Below high tension line) north-south		2	77.90	0.20	0.10	3.12		
	80Feet Rd (high tension line) East-West		2	222.75	0.20	0.10	8.91		
	5th Cross Rd (Impu House Rd # 156)		2	84.50	0.20	0.10	3.38		
	4TH Main Rd		1	22.30	0.20	0.10	0.45		
	6th Cross Rd		1	18.60	0.20	0.10	0.37		
	4th Cross Rd		2	102.10	0.20	0.10	4.08		
	3rd Cross Rd		2	74.35	0.20	0.10	2.97		
	Cross Rd-3		2	9.45	0.20	0.10	0.38		
	NP3 Pipe								
			1	10.00	1.10	0.15	1.64		
							1040.02	**5897.97**	**6133998.93**
	Approved Amount	**5897.97**							
4	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc, complete excluding cost of stell as per MORTH specification NO. 1500, 1700, 2200. Including cost of materials, labour, HOM complete as per specifications.								
	RCC Drain Raft	Cum							
	Industrial Area								
	Ajantha Vihar Appertment Rd		2	395.3	0.90	0.15	106.72		
	Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00	0.90	0.15	85.32		
	Ajantha Vihar Appertment Beside Rd		2	266.95	0.90	0.15	72.08		
	Cotton Word Office Rd		2	43.80	0.90	0.15	11.83		
	Durga Ganapathi House Rd		2	296.00	0.90	0.15	79.92		
	GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	334.50	0.90	0.15	90.32		
	CQAL Layout								
	2nd Main Rd		1	107.10	0.90	0.15	14.46		
	Cross Rd -1		2	26.50	0.90	0.15	7.16		
	Cross Rd-2		2	18.90	0.90	0.15	5.10		
	Santhosh Nagara								
	1st Cross Rd Santhosh Nagara		2	48.75	0.75	0.15	10.97		

A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70	0.90	0.15	27.46		
Thirumala Nagara								
6th Main Rd		1	164.70	0.90	0.15	22.23		
Devi Circle								
Adishakthi Temple Opp Rd		1	156.50	0.90	0.15	21.13		
AMS Layout								
Oriental English High School Rd		1	180.00	0.90	0.15	24.30		
80Feet Rd (Below high tension line) north-south		2	77.90	0.90	0.15	21.03		
80Feet Rd (high tension line) East-West		2	222.75	0.90	0.15	60.14		
5th Cross Rd (Impu House Rd # 156)		2	84.50	0.90	0.15	22.82		
4TH Main Rd		1	22.30	0.90	0.15	3.01		
6th Cross Rd		1	18.60	0.90	0.15	2.51		
4th Cross Rd		2	102.10	0.90	0.15	27.57		
3rd Cross Rd		2	74.35	0.90	0.15	20.07		
Cross Rd-3		2	9.45	0.90	0.15	2.55		
RCC Drain Wall								
Industrial Area								
Ajantha Vihar Appertment Rd		4	395.3	0.15	0.60	142.29		
Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		4	316.00	0.15	0.60	113.76		
Ajantha Vihar Appertment Beside Rd		4	266.95	0.15	0.60	96.10		
Cotton Word Office Rd		4	43.80	0.15	0.60	15.77		
Durga Ganapathi House Rd		4	296.00	0.15	0.60	106.56		
GO GO International Factory Main Rd (Nidhi Fasions Rd)		4	334.50	0.15	0.75	149.76		
COAL Layout								
2nd Main Rd		2	107.10	0.15	0.65	21.70		
Cross Rd -1		4	26.50	0.15	0.60	9.54		
Cross Rd-2		4	18.90	0.15	0.60	6.80		
Santhosh Nagara								
1st Cross Rd Santhosh Nagara		4	48.75	0.15	0.75	21.94		
1st A Cross Rd (Mamatha Nilaya House Rd #16)		4	101.70	0.15	0.50	30.84		
Thirumala Nagara								
6th Main Rd		2	164.70	0.15	0.60	29.65		

vi Circle									
shakthi Temple Opp Rd		2	156.50	0.15	0.60	28.17			
AMS Layout									
Oriental English High School Rd		2	180.00	0.15	0.70	37.80			
80Feet Rd (Below high tension line) north-south		4	77.90	0.15	0.60	28.04			
80Feet Rd (high tension line) East-West		4	222.75	0.15	0.60	80.19			
5th Cross Rd (Impu House Rd # 156)		4	84.50	0.15	0.60	30.42			
4TH Main Rd		2	22.30	0.15	0.60	4.01			
6th Cross Rd		2	18.60	0.15	0.60	3.35			
4th Cross Rd		4	102.10	0.15	0.60	36.63			
3rd Cross Rd		4	74.35	0.15	0.60	26.92			
Cross Rd-3		4	9.45	0.15	0.60	3.42			
						1762.36			
For RCC Culvert									
Raft									
Culvert		15	7.34	1.20	0.15	19.83			
Side walls									
Culvert		30	7.34	0.23	0.46	23.32			
						43.15			
Culvert Slab		15	7.48	1.10	0.23	28.36			
						28.36			
					Net Qty.	1833.87	7790.43	14286614.98	
Approved Amount	**7790.43**								
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.								
Considering steel For Drain @ 60kg / cum	Tn		#####	0.06	--	105.74			
Considering steel For Culvert @ 80 kg / cum			43.15	0.08	--	3.45			
Culvert Slab			28.36	0.09		2.55			
						111.75	84113.86	9399392.70	
Approved Amount	**84113.86**								
6	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:2:4 with OPC @ 240kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.53cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.								
Sholder Drain	Cum								
Sholder Bottom			140	1.3	0.45	0.1	8.19		

Wall Plastring		280	1.3	0.25	0.1	9.1		
						17.29		
				Upto 125%		16.05	6328.02	101564.72
				Above 125%		1.24	6328.02	7846.74
Approved Amount	**6328.02**							
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 100mm thick and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.							
RCC Drain Raft	Sqm							
Industrial Area								
Ajantha Vihar Appertment Rd		2	395.3	0.90		711.45		
Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00	0.90		568.80		
Ajantha Vihar Appertment Beside Rd		2	266.95	0.90		480.51		
Cotton Word Office Rd		2	43.80	0.90		78.84		
Durga Ganapathi House Rd		2	296.00	0.90		532.80		
GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	334.50	0.90		602.10		
CQAL Layout								
2nd Main Rd		1	107.10	0.90		96.39		
Cross Rd -1		2	26.50	0.90		47.70		
Cross Rd-2		2	18.90	0.90		34.02		
Santhosh Nagara								
1st Cross Rd Santhosh Nagara		2	48.75	0.75		73.13		
1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70	0.90		183.06		
Thirumala Nagara								
6th Main Rd		1	164.70	0.90		148.23		
Devi Circle								
Adishakthi Temple Opp Rd		1	156.50	0.90		140.85		
AMS Layout								
Oriental English High School Rd		1	180.00	0.90		162.00		
80Feet Rd (Below high tension line) north-south		2	77.90	0.90		140.22		
80Feet Rd (high tension line) East-West		2	222.75	0.90		400.95		
5th Cross Rd (Impu House Rd # 156)		2	84.50	0.90		152.10		
4TH Main Rd		1	22.30	0.90		20.07		

	Cross Rd		1	18.60	0.90		16.74		
	Cross Rd		2	102.10	0.90		183.78		
	3rd Cross Rd		2	74.35	0.90		133.83		
	Cross Rd-3		2	9.45	0.90		17.01		
	For Shoulder Drain		140		0.60		84.00		
	Deduct Slab		-9		0.90		-8.10		
							5000.48	2452.68	12264565.02
	Approved Amount	**2452.68**							
8	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.								
		Sqm					**0.00**	**5686.19**	**0.00**
	Approved Amount	**5686.19**							
9	Removing & Refixing of Kerb Stone								
	For Kerb	M					153.00		
			1	153.00			**153.00**	**110.13**	**16850.11**
	Approved Amount	**110.13**							
10	Providing and Fixing pre cast Solid **Cement Concrete Kerb stone** made made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively								
	For Kerb	Nos							
	Industrial Area								
	Ajantha Vihar Appertment Rd		2	395.3			790.50		
	Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00			632.00		
	Ajantha Vihar Appertment Beside Rd		2	253.60			507.20		
	Cotton Word Office Rd		2	43.80			87.60		
	Durga Ganapathi House Rd		2	293.50			587.00		
	GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	331.75			663.50		
	CQAL Layout								
	2nd Main Rd		1	107.10			107.10		
	Cross Rd -1		2	26.50			53.00		
	Cross Rd-2		2	18.90			37.80		
	Santhosh Nagara								
	1st Cross Rd Santhosh Nagara		2	48.75			97.50		
	1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70			203.40		

Nagara						164.70			
Main Rd		1	164.70						
Circle						156.50			
Adishakthi Temple Opp Rd		1	156.50						
AMS Layout						180.00			
Oriental English High School Rd		1	180.00						
80Feet Rd (Below high tension line) north-south		2	77.90			155.80			
80Feet Rd (high tension line) East-West		2	222.75			445.50			
5th Cross Rd (Impu House Rd # 156)		2	84.50			169.00			
4TH Main Rd		1	22.30			22.30			
6th Cross Rd		1	18.60			18.60			
4th Cross Rd		2	102.10			204.20			
3rd Cross Rd		2	74.35			148.70			
Cross Rd-3		2	9.45			18.90			
		-1	153.00			-153.00			
						5297.80			
						11773.00			
				Upto 125%		5643.75	453.89		2561641.69
				Above 125%		6129.25	453.89		2782005.28
	Approved Amount	453.89							
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications								
	For Kerb	Sqm							
	Industrial Area								
	Ajantha Vihar Appertment Rd		2	395.3		0.30	237.15		
	Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00		0.30	189.60		
	Ajantha Vihar Appertment Beside Rd		2	253.60		0.30	152.16		
	Cotton Word Office Rd		2	43.80		0.30	26.28		
	Durga Ganapathi House Rd		2	293.50		0.30	176.10		
	GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	331.75		0.30	199.05		
	CQAL Layout								
	2nd Main Rd		1	107.10		0.30	32.13		
	Cross Rd -1		2	26.50		0.30	15.90		
	Cross Rd-2		2	18.90		0.30	11.34		
	Santhosh Nagara								

st Cross Rd Santhosh Nagara		2	48.75		0.30	29.25		
1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70		0.30	61.02		
Thirumala Nagara								
6th Main Rd		1	164.70		0.30	49.41		
Devi Circle								
Adishakthi Temple Opp Rd		1	156.50		0.30	46.95		
AMS Layout								
Oriental English High School Rd		1	180.00		0.30	54.00		
80Feet Rd (Below high tension line) north-south		2	77.90		0.30	46.74		
80Feet Rd (high tension line) East-West		2	222.75		0.30	133.65		
5th Cross Rd (Impu House Rd # 156)		2	84.50		0.30	50.70		
4TH Main Rd		1	22.30		0.30	6.69		
6th Cross Rd		1	18.60		0.30	5.58		
4th Cross Rd		2	102.10		0.30	61.26		
3rd Cross Rd		2	74.35		0.30	44.60		
Cross Rd-3		2	9.45		0.30	5.67		
						1635.23		
				Upto 125%		**1336.50**	**89.00**	**118948.50**
				Above 125%		**298.73**	**89.00**	**26586.54**
	Approved Amount	**89.00**						
12	KSRRB M400-18. Construction of **Median and Island above road level** with approved material deposited at site from roadway cutting and excavation for drain and foundation of other structures, spread, graded and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No. 407							
						0.00	**194.68**	**0.00**
	Approved Amount	**194.68**						
13	KSRB 14.6 : Providing and laying **heavy duty cobble stones** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS							
	Cobble Stone	Sqm						
	Industrial Area							
	Ajantha Vihar Appertment Rd		2	395.3	0.82		651.06	

	ghts Rd(# 1035 se) Wheel and Axel ompound Parallel Rd		1	14.00	0.89		12.50		
	Ajantha Vihar Appertment Beside Rd		2	255.70	0.71		362.84		
	Durga Ganapathi House Rd		2	273.00	1.25		684.47		
	GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	330.35	1.29		852.30		
					Area				
	Deduction of Trees		-100		0.80		-80.00		
	Deduction of Trees		-124		0.48		-59.52		
	Deduction of Sholder Drain		-140		0.50		-70.00		
							2353.65		
					Upto 125%		800.63	1171.43	937876.14
					Above 125%		1553.02	1171.43	1819254.28
	Approved Amount	**1171.43**							
14	KSRRB 300-46. **Scarifying by mechanical means** stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3								
	Asphalat Road	Sqm							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	3.50		883.05		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	3.60		1052.05		
	True Valve Car Rd		1	74.00	3.80		281.20		
	Manjunathaswamy Nilaya House Rd		1	26.30	3.90		102.57		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	3.50		113.05		
	6th Cross Rd		1	306.10	3.60		1102.69		
	CQAL Layout								
	2nd Main Rd		1	557.30	3.60		2008.51		
	1st Cross Rd		1	37.90	4.00		151.60		
	2nd Cross Rd		1	30.00	3.85		115.51		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	3.40		474.52		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	4.30		1290.00		
	KSSIDC Industrial Estate Rd		1	270.00	3.80		1027.08		
							8601.83	56.82	488756.23
	Approved Amount	**56.82**							

	KSRB M300-14. **Excavation for road work** in all type of soil by mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification.								
	Asphalat Road	Cum							
	Kaveri Layout								
	1st Main Rd		1	337.80	7.10	0.40	953.16		
	CC Road								
	Temple Surrounding		1	49.00	13.60	0.40	263.18		
							1216.34	**56.36**	**68553.19**
	Approved Amount	**56.36**							
16	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.								
	Asphalat Road	Sqm							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	3.50		883.03		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	3.60		1050.24		
	True Valve Car Rd		1	74.00	3.80		281.20		
	Manjunathaswamy Nilaya House Rd		1	26.30	3.90		102.57		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	3.50		113.05		
	6th Cross Rd		1	306.10	3.60		1101.96		
	CQAL Layout								
	2nd Main Rd		1	557.30	3.60		2006.28		
	1st Cross Rd		1	37.90	4.00		151.60		
	2nd Cross Rd		1	30.00	3.85		115.50		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	3.40		473.96		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	4.30		1288.80		
	KSSIDC Industrial Estate Rd		1	270.00	3.80		1026.00		
	Kaveri Layout								
	1st Main Rd		1	337.80	7.10		2382.31		
	CC Road								
	Temple Surrounding		1	49.00	13.60		666.16		
							11642.66	**6.67**	**77656.52**
	Approved Amount	**6.67**							

	truction of granular **sub-base Grading-V as Sub-base** and drainage layer by providing coarse ed crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.								
	Asphalat Road	Cum							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	3.50	0.15	132.46		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	3.60	0.15	157.54		
	True Valve Car Rd		1	74.00	3.80	0.15	42.18		
	Manjunathaswamy Nilaya House Rd		1	26.30	3.90	0.15	15.38		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	3.50	0.15	16.96		
	6th Cross Rd		1	306.10	3.60	0.15	165.38		
	CQAL Layout								
	2nd Main Rd		1	557.30	3.60	0.15	300.94		
	1st Cross Rd		1	37.90	4.00	0.15	22.66		
	2nd Cross Rd		1	30.00	3.85	0.15	17.27		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	3.40	0.15	71.09		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	4.30	0.15	193.50		
	KSSIDC Industrial Estate Rd		1	270.00	3.80	0.15	153.90		
	Kaveri Layout								
	1st Main Rd		1	337.80	7.10	0.15	357.34		
	CC Road								
	Temple Surrounding		1	49.00	13.60	0.15	99.79		
							1746.40	**2093.67**	**3656380.43**
	Approved Amount	**2093.67**							
18	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	Asphalat Road	Cum							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.13	3.50	0.225	198.81		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	3.60	0.225	236.99		
	True Valve Car Rd		1	74.00	3.80	0.225	63.21		

	Manjunathaswamy Nilaya House Rd		1	26.30	3.90	0.225	23.14		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	3.50	0.225	25.52		
	6th Cross Rd		1	306.10	3.60	0.225	248.66		
	CQAL Layout								
	2nd Main Rd		1	557.30	3.60	0.225	451.55		
	1st Cross Rd		1	37.90	4.00	0.225	34.17		
	2nd Cross Rd		1	30.00	3.85	0.225	26.04		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	3.40	0.225	106.98		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	4.30	0.225	290.52		
	KSSIDC Industrial Estate Rd		1	270.00	3.75	0.225	227.84		
	Kaveri Layout								
	1st Main Rd		1	337.80	7.10	0.225	536.69		
							2470.11	**2100.34**	**5188075.66**
	Approved Amount	**2100.34**							
19	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								
	Asphalat Road	Sqm							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	3.50		837.68		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	3.60		1088.47		
	True Valve Car Rd		1	74.00	3.80		281.20		
	Manjunathaswamy Nilaya House Rd		1	26.30	3.90		102.55		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	3.50		113.03		
	6th Cross Rd		1	306.10	3.60		1101.94		
	CQAL Layout								
	2nd Main Rd		1	557.30	3.60		2008.49		
	1st Cross Rd		1	37.90	4.00		151.58		
	2nd Cross Rd		1	30.00	3.85		115.51		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	3.40		474.50		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	4.30		1291.20		
	KSSIDC Industrial Estate Rd		1	270.00	3.75		1012.61		
	Kaveri Layout								

	Main Rd		1	337.80	7.10		2399.70		
							10978.46	35.60	390833.26
	Approved Amount	**35.60**							
20	KSRRB 500-2. **Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision								
	Asphalat Road	Sqm							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	7.95		2005.79		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	5.60		1719.20		
	True Valve Car Rd		1	74.00	9.30		688.53		
	Manjunathaswamy Nilaya House Rd		1	26.30	9.60		252.59		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	7.60		245.63		
	6th Cross Rd		1	306.10	5.65		1729.62		
	CQAL Layout								
	2nd Main Rd		1	557.30	5.65		3149.02		
	1st Cross Rd		1	37.90	3.85		145.93		
	2nd Cross Rd		1	30.00	6.40		192.12		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	5.20		725.44		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	8.10		2431.20		
	KSSIDC Industrial Estate Rd		1	270.00	7.40		1999.22		
							15284.27		
					Upto 125%		**13042.09**	**5.56**	**72514.01**
					Above 125%		**2242.19**	**5.56**	**12466.55**
	Approved Amount	**5.56**							
21	KSRRB 500-11. Providing and laying **bituminous macadam** on Prepared Surface with crushed Coarse aggregates as per Design mix formulae for base/binding course including loading of aggregates with F.E loader,Hot mixing of Stone aggregates and bitumen in Hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve desired density, but excluding cost of primer/Tack coat including lead, lift and cost of all materials, labour HOM of machinaries complete as per Specifications. MORTH Ch 5. using 40/60 TPH capacity HMP with Mechanical paver Gr-II (50mm - 75mm) with 3.4% VG-30 bitumen.								
	Asphalat Road	Cum							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	7.95	0.05	100.29		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	5.60	0.05	85.88		

	e Valve Car Rd		1	74.00	9.30	0.05	34.42		
	anjunathaswamy Nilaya House Rd		1	26.30	9.6	0.05	12.62		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	7.60	0.05	12.27		
	6th Cross Rd		1	306.10	5.65	0.05	86.47		
	CQAL Layout								
	2nd Main Rd		1	557.30	5.65	0.05	157.42		
	1st Cross Rd		1	37.90	3.85	0.05	7.30		
	2nd Cross Rd		1	30.00	6.40	0.05	9.60		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	5.20	0.05	36.24		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	8.10	0.05	121.50		
	KSSIDC Industrial Estate Rd		1	270.00	7.40	0.05	99.91		
	Kaveri Layout								
	1st Main Rd		1	337.80	7.10	0.05	119.31		
							883.25	**7653.79**	**6760238.56**
	Approved Amount	**7653.79**							
22	KSRRB 500--10 Providing and applying tack coat using 80/100 grade Sqm bitumen(VGIO) in boiler fitted with spray set distributor at the rate of 0.25 kg per Sqm on the existing prepared bituminous surface cleaned with mechanical broom, complete as per specifications.								
	Asphalat Road	Sqm							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	7.95		2000.20		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	5.60		1717.67		
	True Valve Car Rd		1	74.00	9.30		688.20		
	Manjunathaswamy Nilaya House Rd		1	26.30	9.60		252.30		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	7.60		245.32		
	6th Cross Rd		1	306.10	5.65		1729.28		
	CQAL Layout								
	2nd Main Rd		1	557.30	5.65		3148.44		
	1st Cross Rd		1	37.90	3.85		145.88		
	2nd Cross Rd		1	30.00	6.40		191.85		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	5.20		724.16		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	8.10		2428.50		
	KSSIDC Industrial Estate Rd		1	270.00	7.40		1996.65		

	veri Layout								
	st Main Rd		1	337.80	7.10		2396.66		
							17665.10	**13.35**	**235829.07**
	Approved Amount	**13.35**							
23	KSRRB M500-19: providing and laying **bituminous concrete 40mm thick** with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification 30-45mm compacted thicikness (GradingII) With 6% bitumen 80/100,								
	Asphalat Road	Cum							
	Attur								
	Mandharathi Tiffan Center Rd		1	252.30	7.95	0.04	80.42		
	Thirumala Nagara								
	5th Cross Rd		1	307.00	5.60	0.04	68.59		
	True Valve Car Rd		1	74.00	9.30	0.04	27.74		
	Manjunathaswamy Nilaya House Rd		1	26.30	9.6	0.04	10.10		
	Manjunathaswamy Nilaya House Opposite Rd		1	32.30	7.60	0.04	9.84		
	6th Cross Rd		1	306.10	5.65	0.04	69.46		
	CQAL Layout								
	2nd Main Rd		1	557.30	5.65	0.04	125.59		
	1st Cross Rd		1	37.90	3.85	0.04	5.84		
	2nd Cross Rd		1	30.00	6.40	0.04	7.65		
	Santhosh Nagara								
	9th A Cross Rd		1	139.40	5.20	0.04	28.89		
	Industrial Area								
	Ajanth Vihara Appertment BesideRd		1	300.00	8.10	0.04	97.26		
	KSSIDC Industrial Estate Rd		1	270.00	7.40	0.04	79.98		
	Kaveri Layout								
	1st Main Rd		1	337.80	7.10	0.04	95.25		
							706.60	**8967.62**	**6336547.56**
	Approved Amount	**8967.62**							
24	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic** Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								
	Asphalat Road	Sqm							
	Attur								

andharathi Tiffan enter Rd		2	252.30	0.10		50.46		
Thirumala Nagara								
5th Cross Rd		2	307.00	0.10		61.40		
True Valve Car Rd		2	74.00	0.10		14.80		
Manjunathaswamy Nilaya House Rd		2	26.30	0.10		5.26		
Manjunathaswamy Nilaya House Opposite Rd		2	32.30	0.10		6.46		
6th Cross Rd		2	306.10	0.10		61.22		
CQAL Layout								
2nd Main Rd		2	557.30	0.10		111.46		
1st Cross Rd		2	37.90	0.10		7.58		
2nd Cross Rd		2	30.00	0.10		6.00		
Santhosh Nagara								
9th A Cross Rd		2	139.40	0.10		27.88		
Industrial Area								
Ajanth Vihara Appertment BesideRd		2	300.00	0.10		60.00		
KSSIDC Industrial Estate Rd		2	270.00	0.10		54.00		
Kaveri Layout								
1st Main Rd		2	337.80	0.10		67.56		
Center Line								
Attur								
Mandharathi Tiffan Center Rd		0.5	252.30	0.15		18.92		
Thirumala Nagara								
5th Cross Rd		0.5	307.00	0.15		23.03		
True Valve Car Rd		0.5	74.00	0.15		5.55		
Manjunathaswamy Nilaya House Rd		0.5	26.30	0.15		1.97		
Manjunathaswamy Nilaya House Opposite Rd		0.5	32.30	0.15		2.42		
6th Cross Rd		0.5	306.10	0.15		22.96		
CQAL Layout								
2nd Main Rd		0.5	557.30	0.15		41.80		
1st Cross Rd		0.5	37.90	0.15		2.84		
2nd Cross Rd		0.5	30.00	0.15		2.25		
Santhosh Nagara								
9th A Cross Rd		0.5	139.40	0.15		10.46		
Industrial Area								
Ajanth Vihara Appertment BesideRd		0.5	300.00	0.15		22.50		
KSSIDC Industrial Estate Rd		0.5	270.00	0.15		20.25		
Kaveri Layout								
1st Main Rd		0.5	337.80	0.15		25.34		

							734.36	477.25	350473.31
	Approved Amount	**477.25**							

KSRRB M800-35. Supply and Installtion of **Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's

	Asphalat Road	Nos							
			1	712.00			712.00		
							712.00	**374.90**	**266928.80**
	Approved Amount	**374.90**							

26 KSRRB M600-1.Providing and Constructing **dry lean cement concrete mix CC 1:5:10** base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5

	CC Road								
	Temple Surrounding		1	49.00	13.60	0.10	65.99		
							65.99		
	Upto 125%						**62.48**	**4262.32**	**266288.44**
	Above 125%						**3.51**	**4262.32**	**14977.76**
	Approved Amount	**4262.32**							

27 Constructing un-reinforced, plain cement concrete for pavements using **Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2026, with Superplastizer at 3 lts conforming to IS 9203-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 225 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 225 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum

	CC Road	Cum							
	Temple Surrounding		1	49.00	13.60	0.15	98.98		
							98.98		
					Upto 125%		**93.71**	**5913.20**	**554140.76**

				Above 125%		5.27	5913.20	31168.53
Approved Amount	5913.20							
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter								
For RCC Drain	Cum							
Industrial Area								
Ajantha Vihar Appertment Rd		2	395.3	1.10	1.00	865.60		
Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		2	316.00	1.10	1.00	692.04		
Ajantha Vihar Appertment Beside Rd		2	266.95	1.10	1.00	584.62		
Cotton Word Office Rd		2	43.80	1.10	1.00	96.36		
Durga Ganapathi House Rd		2	296.00	1.10	1.00	651.20		
GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	334.50	1.10	1.00	735.90		
CQAL Layout								
2nd Main Rd		1	107.10	1.10	1.00	117.81		
Cross Rd -1		2	26.50	1.10	1.00	58.30		
Cross Rd-2		2	18.90	1.10	1.00	41.58		
Santhosh Nagara								
1st Cross Rd Santhosh Nagara		2	48.75	1.10	1.00	107.25		
1st A Cross Rd (Mamatha Nilaya House Rd #16)		2	101.70	1.10	1.00	223.74		
Thirumala Nagara								
6th Main Rd		1	164.70	1.10	1.00	181.17		
Devi Circle								
Adishakthi Temple Opp Rd		1	156.50	1.10	1.00	172.15		
AMS Layout								
Oriental English High School Rd		1	180.00	1.10	1.00	198.72		
80Feet Rd (Below high tension line) north-south		2	77.90	1.10	1.00	172.00		
80Feet Rd (high tension line) East-West		2	222.75	1.10	1.00	491.83		
5th Cross Rd (Impu House Rd # 156)		2	84.50	1.10	1.00	186.58		
4TH Main Rd		1	22.30	1.10	1.00	24.62		
6th Cross Rd		1	18.60	1.10	1.00	20.53		
4th Cross Rd		2	102.10	1.10	1.00	225.44		

	3rd Cross Rd		2	74.35	1.10	1.00	164.16		
	Cross Rd-3		2	9.45	1.10	1.00	20.87		
	Culvert		15	7.34	1.50	1.00	165.69		
	NP3 Pipe								
			1	10.00	1.10	1.10	12.09		
							6210.25	**76.84**	**477195.67**
	Approved Amount	**76.84**							
E1	Providing and laying in position **plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications.KBS No.5.4 I.No.5.26.1, Page no 27 P-13, A·8								
	Cobble Stone	Cum							
	Industrial Area								
	Ajantha Vihar Appertment Rd		2	395.3	0.82	0.15	97.66		
	Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd		1	14.00	0.90	0.15	1.89		
	Ajantha Vihar Appertment Beside Rd		2	255.70	0.71	0.15	54.46		
	Durga Ganapathi House Rd		2	273.00	1.25	0.15	102.67		
	GO GO International Factory Main Rd (Nidhi Fasions Rd)		2	330.35	1.29	0.15	127.85		
					Area				
	Deduction of Trees		-100		0.80	0.15	-12.00		
	Deduction of Trees		-124		0.48	0.15	-8.93		
	Deduction of Sholder Drain		-140		0.50	0.15	-10.50		
							353.10	**5505.64**	**1944055.71**
	Basic Rate	**5194.00**							
	Area Weightage	**311.64**							
	Total	**5505.64**							
E2	KSRB 5-14 : Providing and constructing **load bearing wall with solid concrete blocks** of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 I.No.5.26.1, Page no 27								
	For Shoulder Drain		280	1.30		0.20	72.80		
							72.80	**1019.72**	**74235.62**
	Basic rate	962.00							
	Area weightage 6%	57.72							
	Total	**1019.72**							

	Providing and laying reinforced **cement concrete pipe NP3** for culverts including pointing ...s, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing, including cost of materials, labour, HOM complete as per specifications. Specifications. No. KSRB 1000, 2300-do-450mm. dia KBS No.5.4 I.No.5.26.1, Page no 27								
							P-254 34.6.2		
	NP3 Pipe	m					10.00		
			1	10.00			**10.00**	**2737.98**	**27379.80**
	Basic Rate	**2583.00**							
	Area Weightage	**154.98**							
	Total	**2737.98**							
E4	KSRRB M300-18. Wrought iron and **mild steel welded work** (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.KBS No.5.4 I.No.19.97, Page no 150								
	For Shoulder Drain	Qtl					140.00		
			140				769.30		
							7.69	**7618.22**	**58606.97**
	Basic Rate	**7187.00**							
	Area Weightage	**431.22**							
	Total	**7618.22**							
								Construction Cost	**78708151.69**
								Miscellaneous & Rounding off	**405.31**
								Total	**78708557.00**

Assistant Engineer
Project Division Yelahanka
BBMP

Assistant Executive Engineer
Project Division Yelahanka
BBMP

Executive Engineer
Project Division Yelahanka
BBMP

Technical Sanction
Accorded For Rs.78708557.00
Head of A/C P.3075
CER NO :58..... Dt:02.05.2021